

# RAZIFA KHATIK

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Nashik, Maharashtra (IN)

## Education

Savitribai Phule Pune University	2022 – 2026
Bachelor of Engineering – Artificial Intelligence and Data Science	CGPA: 9.50

## Work Experience

BOSCH Ltd.	Dec’24 – Feb’25
Data Science Intern	Nashik, MH
<ul style="list-style-type: none"><li>Developed a <b>Power BI</b> based Raw Material Supply Tracking Dashboard to monitor raw material trolley movement across six halt points improving supply tracking and real time logistics visibility also <b>increasing on-time delivery by 30%</b>.</li><li>Built a <b>Django</b>-based C Coating Management System with visual batch tracking, enhancing process transparency and operator <b>efficiency by 40%</b>.</li><li>Engineered the Schutte Hourly Monitoring System to <b>analyze Schutte machine data shift-wise and hourly</b>, reducing downtime by 20% and improving production analytics.</li><li>Created <b>Prediction Model</b> using <b>Random Forest Machine Learning Model</b> with <b>accuracy of 80%</b> to classify shims from process parameters, reducing manual classification and increasing accuracy.</li><li>Tools and Technologies: <b>Power BI, Data Cleaning, Data Analytics, Django, PostgreSQL, React.js, Node.js, JavaScript, Bootstrap, SQL, Machine Learning Algorithms, Model Evaluation, Hyperparameter Tuning.</b></li></ul>	

JPMorgan Chase & Co.	Feb’25 - Jun’25
Software Engineering Job Simulation	Remote
<ul style="list-style-type: none"><li>Set up the project environment and integrated multiple services to create a working backend system</li><li>Implemented <b>kafka</b> messaging system for <b>real-time data streaming</b> between services.</li><li>Developed and tested <b>REST APIs</b>, integrating them with REST Controllers, also utilized <b>H2 Database</b> for in-memory storage</li><li>Tools and Technologies: <b>Java, Spring Boot, Apache Kafka, H2 Database, REST API, Postman, Git, IntelliJ IDEA</b></li></ul>	

Acmegrade Organization	Jul’24 - Sep’24
Data Science Intern	Remote
<ul style="list-style-type: none"><li>Designed a Used Cars Cost Prediction model using <b>regression algorithms</b> to estimate vehicle prices based on features like age, mileage and fuel type, <b>supporting smarter resale decisions</b>.</li><li>Build a Sales Forecasting model using historical data and <b>time-series techniques</b> to predict future sales trends, enabling better inventory.</li><li>Tools and Technologies: <b>Python, Data Wrangling, Data Preprocessing, Numpy, Pandas, Matplotlib, Seaborn, Machine Learning Algorithms.</b></li></ul>	

## Projects

### Brain Tumor Detection System

- Resolved delays and inaccuracies in brain tumor diagnosis by developing an AI-based MRI scan Classification system
- Developed a Deep Learning Model using **CNN** to classify brain tumors from MRI scans into types such as Glioma, Meningioma, Pituitary, and No Tumor.
- Integrated the train model into Django web app enabling the users to upload scans and receive predictions with user friendly message.
- Tools and Technologies: **Deep Learning Model, TensorFlow, Keras, Django, HTML, CSS, Bootstrap, JavaScript.**

### AI-Based Retail Location Recommender System

- Implemented an AI driven scoring and ranking algorithm based on location intelligence, demographic data, and competition mapping to suggest high potential areas for given business type.
- Optimized retail success by designing a location intelligence system using geospatial data and footfall analysis.
- Developed a web-based interactive platforms with heatmaps, Dashboard, and real time business intelligence.
- Tools and Technologies: **Google Maps API, OpenStreetMap, Python, GeoPandas, Folium.**

### AI-Powered Network Traffic Analyzer

- Engineered live packet monitoring system to capture traffic metadata enabled zero-day threat detection
- Implemented an Isolation Forest ML model, for anomaly detection in a live simulation environment
- Tools and Technologies: **Python, Scikit-learn, Pandas, Streamlit, Seaborn, Isolation Forest**

## Technical Skills

**Programming Languages:** Python, C, C++, JavaScript, Java, SQL.

**Web Development:** HTML, CSS, Bootstrap, Tailwind, React.js, Node.js, Express.js, Django, REST APIs.

**Databases:** PostgreSQL, MongoDB, SQLite.

**AI and Machine Learning:** Scikit-Learn, TensorFlow, Keras, OpenCV, ML Algorithms, Hyperparameter Tuning, Model Evaluation.

**Data Science & Analytics:** Power BI, Excel, Pandas, NumPy, Seaborn, Matplotlib, Data Cleaning, Preprocessing, EDA.

**Computer Fundamentals:** Object Oriented Programming (OOP), Operating Systems (OS), Database Management Systems (DBMS), Data Structures and Algorithms, Software Engineering, System Design

**Other tools:** Jupyter Notebook, Colab, VS Code, Git, Github, Figma, Canva

## Achievements

- LeetCode:** Problems Solved **100+** questions
- Ranked among the **top 3 percent** students of Artificial Intelligence and Data Science department.
- Winner** of “Best Website Development Competition”
- Ranked at **top 2<sup>nd</sup> Position** in “Best PowerPoint Presentation Competition”

## Positions of Responsibility

Council Member, Student Council GCOERC	Sept’22 - Present
<ul style="list-style-type: none"><li>Coordinated departmental events, workshops and technical fests, ensuring smooth execution and high participations.</li></ul>	
Technical Lead, Coding Club	Aug’22 - Present
<ul style="list-style-type: none"><li>Organized coding contests, hackathons and peer-to-peer learning sessions.</li></ul>	
Volunteer, Artificial Intelligence and Data Science Student Association (ADSA)	Dec’23 - Oct’24
<ul style="list-style-type: none"><li>Assisted in AI-focused events, fostered an active coding culture, and organized diverse events and competitions.</li></ul>	